

Abstract of the Disclosure:

A method and a control device for a brushless DC motor, which has an AC/DC inverter supplied by an intermediate direct voltage circuit for feeding the DC motor, a pattern generator for controlling switches of the AC/DC inverter having a variable frequency and phase periodical switch signal pattern and an input for a signal representative of the present phase position of the rotor of the DC motor. The pattern generator detects an average current strength released by the AC/DC inverter and adjusts a phase offset between the phase position of the rotor and the switch signal pattern in accordance with the detected average current strength and the speed of the motor. The pattern generator controls the motor by adjusting a desired speed of the motor by variation of an average terminal voltage of the motor; detecting the average power requirement of the motor and the lead angle between the rotor of the motor and the driving magnetic field; approximating the lead angle to a desired value given as a function of the speed and the average power requirement.